Engineer: Chris Samios	Date: 2/26/04	Raytheon					
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Approved: Chris Samios	Date: 2/26/04	Title: ACU RADIO APPLICATION NOTES					
Issued/ Revised	Date: 9/2/04	Size:	Dwg. #: 5961-271130-APP	Rev: B1	Sheet:	Of	1

APPLIES TO: Motorola MTS-1000 Portable

Motorola MTS-2000 Portable Motorola XTS-3000 Portable Motorola XTS-5000 Portable Motorola HT-1000 Portable EF Johnson 5100 Portable

RADIO MODIFICATIONS: None required

RADIO PROGRAMMING: Not required

RADIO CONTROLS:

1. Adjust the Volume Control until the yellow "SIGNAL" indicator on the associated DSP Module flashes with receive audio. Should be about in the mid-range (12 o'clock) position.

CABLING:

Standard ACU-1000 and ACU-T Interface cables are made up of a 2 foot TRP Radio Tray Interface cable and the appropriate 13-foot Extension cable.

ACU-1000 Interface Cable	JPS P/N 5961-291130	(5961-271130+5961-261002-00)
ACU-T Interface Cable	JPS P/N 5961-281130	(5961-271130 + 5961-281013-00)
TRP-1000 Shelf Interface Cable	JPS P/N 5961-271130	

RF Connector Type

DSP-1 JUMPERS:

JP1 Low Impedance *
JP2 Balanced *

DSP PROGRAMMING:

RX Level	4	-4dBm	
TX Level	7	4dBm	
Squelch Type	VOX*		
COR Polarity	Active Low*		
High Frequency Equalizer	6	3.5dB boost	
RX Audio Delay	2*	100 ms*	
TX Audio Delay (Radio Type)	0*	No Delay*	(See notes)
Noise Reduction Value	0*	Off*	
VOX/VMR Threshold	1*	Med1*	
VOX/VMR Hang Time	3*	775 ms*	
COR Inhibit After PTT	1*	100 ms*	
All Others	As needed		

(* Indicates Default Value)

NOTES: If the radio is trunked, set TX Audio Delay to 4 (800 ms).





